

**REPORT OF THE UTILITIES DEPARTMENT
OF
THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA**

DOCKET NO. 1999-002-E
SOUTH CAROLINA ELECTRIC & GAS COMPANY
Annual Review of Base Rates for Fuel Costs

REPORT OF UTILITIES DEPARTMENT
SOUTH CAROLINA PUBLIC SERVICE COMMISSION
DOCKET NO. 1999-002-E
SOUTH CAROLINA ELECTRIC & GAS COMPANY
Annual Review of Base Rates for Fuel Costs

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REPORT OF UTILITIES DEPARTMENT

SOUTH CAROLINA PUBLIC SERVICE COMMISSION

DOCKET NO. 1999-002-E

SOUTH CAROLINA ELECTRIC & GAS COMPANY

REPORT OF FUEL ADJUSTMENT ANALYSIS

SCOPE OF EXAMINATION

The Commission's Utilities Department Staff analyzed the Company's procedures and practices pertaining to its fuel operation. Staff's examination consisted of the following:

- 1) Review of the Company's monthly fuel reports including:
 - a) Power Plant Performance Data Reports
 - b) Major Unit Outage Reports
 - c) Generation Mix
 - d) Generation Statistics
 - e) Retail Comparison of MWH Sales
 - f) Retail Comparison of Fuel Costs
- 2) On-site inspections of the Company's coal quality sampling technique.
- 3) Review of the Company's currently approved Adjustment for Fuel Costs tariff.
- 4) History of Cumulative Recovery Account.
- 5) Calculation of fuel costs to be included in the base rates for May 1999 through April 2000.

REVIEW OF COMPANY'S MONTHLY FUEL REPORTS

The Company files with this Commission monthly reports that include power plant performance data, major unit outages, generation mix, and other reports that provide the Staff pertinent data on which to evaluate the Company's fuel operating expenses.

Selected information from the Power Plant Performance Data Reports for nuclear and fossil plants is shown on Exhibit No. 1. It includes a listing of capacity factors and equivalent availability factors for each unit by month for the period and also includes the yearly capacity factors (1996-1998) and the lifetime (cumulative) capacity factor of the V. C. Summer Nuclear Station. These factors are expressed as a percentage. This percentage figure can be

a useful index when attempting to locate or identify a particular problem or unusual occurrence.

Pursuant to S.C. Code Ann. Section 58-27-865 (Supp. 1997) certain criteria are established for review of a utility's effort to minimize fuel expenses. In evaluating a utility's fuel costs under this section, it is necessary to examine and determine whether the utility has made every reasonable effort to minimize fuel costs associated with the operation of its nuclear generation system while "giving due regard to reliability of service, economical generation mix, generating experience of comparable facilities and minimization of the total cost of providing service." The Company's nuclear generation system net capacity factor is approximately 99%.

The Company's Nuclear Unit Outage Report considers each outage experienced by unit, giving the inclusive dates of the outage, hours down, type of outage (Scheduled or Forced), the reason for the outage, and the corrective action taken. This information covers the period being considered in this proceeding and is shown in Exhibit No. 2A. Staff compiled this data through review of Company documents, NRC documents, and interviews with Company personnel. The Company's Nuclear Units performed very well during the period March 1998 through February 1999. The Company's nuclear system incurred no forced outages during this test period. The Staff's Fossil Unit Outage Report is a listing of plants by unit, duration of outage (greater than 100 hours), reason for down time, and corrective action taken to return the plant to service. The information specifically reviewed for this proceeding is for the months of March 1998 through February 1999 and is included in Exhibit No. 2B. These Units' Availability Factors were in the 95 plus percentile for the greater portion of this period.

Staff reviewed and compiled a percentage Generation Mix statistic sheet for the Company's fossil, nuclear and hydraulic plants for March 1998 through February 1999. The fossil generation ranged from a high of 76% to a low 62%. The nuclear generation ranged from a high of 32% to a low of 20%. The percentage of generation by hydro ranged from a high of 7% to a low of 3%. This information is included in Exhibit No. 3. The Staff also collected and reviewed certain Generation Statistics of Major Plants for the 12 months ending February 28, 1999. This data is presented on Exhibit No. 4. This Exhibit shows the Company's major plants by name, type of fuel used, fuel cost in cents per kilowatt-hour to operate and total megawatt-hours generated for the period. The nuclear fueled Summer Plant was lowest in cost at 0.48 cents per kilowatt-hour. The highest amount of generation of 5,532,580 megawatt-hours was produced at the V. C. Summer Nuclear Station.

Utilities Department Exhibit No. 5 shows a comparison of the Company's original retail megawatt-hour (MWH) estimated sales to the actual sales for the period from March 1998 through February 1999. The original projections ranged from an under-estimate of 14.5% in July 1998 to an over-estimate of 25.2% in February 1999 with a total under-estimate of 0.5% for the period.

of its production facilities to assure the lowest fuel costs possible. Also, the Commission has directed the Staff to monitor the Company's plant operations and fuel purchasing to insure that any inefficient or negligent practice is brought to the Commission's attention.

Exhibit No. 10 is a table of Projections of the Cumulative Recovery Account for various fuel base levels for the twelve month period ending April 2000. Also indicated in the table are the projected results using the current fuel factor base component and the Company's proposed factor of 1.337 cents/KWH.

SOUTH CAROLINA ELECTRIC & GAS COMPANY
POWER PLANT PERFORMANCE DATA REPORT
CAPACITY FACTORS (PERCENTAGE)

PLANTS NAME	UNIT	NET Mwe	YEAR 1996	YEAR 1997	YEAR 1998	MAR 1998	APR 1998	MAY 1998	JUN 1998	JUL 1998	AUG 1998	SEP 1998	OCT 1998	NOV 1998	DEC 1998	JAN 1999	FEB 1999
CANADYS	1	125	38.3	29.6	47.4	38.0	6.8	41.4	72.3	66.0	57.2	59.7	61.8	70.3	8.1	0.0	0.0
CANADYS	2	125	35.4	18.0	42.8	51.3	53.3	12.2	61.8	65.0	55.0	58.1	58.3	64.8	7.4	0.0	0.0
CANADYS	3	180	29.1	38.5	45.7	42.6	80.2	5.7	63.4	78.3	76.8	46.8	16.7	75.5	50.4	40.5	0.0
McMEEKIN	1	126	59.7	67.3	85.0	53.4	94.6	84.3	90.7	96.8	96.7	93.6	49.0	91.7	92.0	84.6	88.1
McMEEKIN	2	126	75.2	69.8	69.9	69.2	65.1	91.0	87.0	92.4	90.9	49.9	0.0	40.4	84.9	71.5	72.7
URQUHART	1	75	39.0	41.9	54.0	30.8	59.9	53.6	72.4	71.2	74.8	72.1	72.6	29.6	71.3	61.2	10.7
URQUHART	2	75	39.8	51.0	59.3	42.3	62.4	41.0	71.8	77.4	78.7	74.4	76.6	28.0	77.1	62.2	16.7
URQUHART	3	100	59.6	44.0	44.8	0.0	0.9	32.1	76.5	86.1	77.9	82.0	61.5	33.7	76.6	51.6	31.2
WATEREE	1	350	68.6	53.3	76.3	83.9	45.9	91.9	89.1	73.8	92.3	91.1	76.1	26.8	86.7	68.2	85.0
WATEREE	2	350	66.1	72.1	59.2	0.0	0.0	48.9	90.2	87.7	91.0	78.9	91.6	82.9	56.9	66.2	61.2
WILLIAMS		560	81.7	88.0	63.1	86.3	56.3	84.7	86.8	92.0	86.1	72.6	0.0	0.0	26.1	74.0	80.2
COPE		408	62.9	68.9	80.2	63.8	67.1	81.9	88.8	92.9	88.0	87.6	93.7	70.9	83.2	69.7	72.2
FOSSIL TOTALS		2600	62.2	62.6	64.5	55.2	48.6	65.5	83.3	84.6	84.2	75.5	53.2	47.0	58.0	61.4	58.7
V. C. SUMMER*		945	85.8	86.7	97.1	99.3	99.8	99.6	99.5	94.6	94.2	99.3	99.7	100.2	97.3	99.5	100.4
(S.C.E.G.)		630															
(S.C.P.S.A.)		315															
SYSTEM TOTAL		3230	76.0	76.2	78.6	74.0	68.9	82.4	96.7	96.3	95.8	63.7	72.6	67.7	75.7	79.8	77.9

*THE LIFETIME CAPACITY FACTOR FOR V. C. SUMMER THROUGH FEBRUARY 1999 IS 76.4%

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EXHIBIT NO. 1
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SOUTH CAROLINA ELECTRIC & GAS COMPANY
POWER PLANT PERFORMANCE DATA REPORT
AVAILABILITY FACTORS (PERCENTAGE)

PLANTS NAME	UNIT	NET Mwe	MAR 1998	APR 1998	MAY 1998	JUN 1998	JUL 1998	AUG 1998	SEP 1998	OCT 1998	NOV 1998	DEC 1998	JAN 1999	FEB 1999
CANADYS	1	125	100.0	17.5	94.5	100.0	92.2	86.2	100.0	97.0	100.0	12.8	81.8	100.0
CANADYS	2	125	100.0	94.3	80.2	97.0	99.8	87.7	96.9	95.5	100.0	12.8	81.8	26.0
CANADYS	3	180	98.0	99.8	13.1	96.0	100.0	100.0	62.9	59.7	100.0	89.9	97.7	0.0
McMEEKIN	1	126	63.3	100.0	90.2	98.3	100.0	100.0	100.0	52.9	100.0	100.0	100.0	100.0
McMEEKIN	2	126	80.4	81.7	100.0	100.0	96.5	97.1	57.1	0.0	57.9	100.0	89.5	88.0
URQUHART	1	75	100.0	100.0	100.0	100.0	90.1	95.1	89.8	90.8	77.6	95.7	94.5	29.3
URQUHART	2	75	99.4	97.0	57.9	95.9	90.2	97.7	99.4	92.2	63.1	98.2	94.8	100.0
URQUHART	3	100	0.0	2.7	44.2	96.7	98.5	96.6	100.0	71.4	77.6	97.3	100.0	96.6
WATEREE	1	350	97.5	56.5	100.0	100.0	86.3	100.0	100.0	90.1	34.6	100.0	99.0	100.0
WATEREE	2	350	0.0	0.0	57.6	99.3	95.5	99.6	87.9	99.5	32.5	69.1	90.2	91.7
WILLIAMS		560	100.0	67.8	95.0	99.3	94.1	93.9	79.5	0.0	0.0	42.9	97.3	100.0
COPE		408	86.8	87.6	100.0	100.0	100.0	100.0	99.0	100.0	81.2	100.0	100.0	100.0
FOSSIL TOTALS		2600	77.1	67.1	77.7	98.6	95.3	96.2	89.4	70.8	73.7	76.6	93.9	77.6
V. C. SUMMER* (S.C.E.G.)	Mwe	945	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
(S.C.P.S.A.)		630												
		315												
SYSTEM TOTAL		3230	78.9	69.6	79.4	98.7	95.6	96.5	90.2	73.0	75.7	78.4	94.4	79.4

SOUTH CAROLINA ELECTRIC & GAS COMPANY
V. C. SUMMER NUCLEAR UNIT OUTAGE REPORT
March 1, 1998 – February 28, 1999

<u>NO.</u>	<u>DATE OFF</u>	<u>DATE ON</u>	<u>HOURS/TYPE*</u>	<u>REASON FOR OUTAGE AND CORRECTIVE ACTION</u>
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THE V.C. SUMMER NUCLEAR UNIT HAD NO SCHEDULED OR FORCED OUTAGES DURING THIS PERIOD. HOWEVER THERE WERE SEVERAL POWER REDUCTIONS TO PERFORM REQUIRED TESTING AND GENERAL MAINTENANCE ASSOCIATED WITH EMERGING WORK AND REPAIR ACTIVITIES.

TYPE* F- Forced S- Scheduled

SOUTH CAROLINA ELECTRIC & GAS COMPANY

FOSSIL UNIT OUTAGE REPORT

(100 HRS OR GREATER DURATION)

March 1, 1998 - February 28, 1999

MONTH UNIT HRS/TYPE* REASON FOR OUTAGE AND CORRECTIVE ACTION

Economic Dispatch.

JUN 98 Canadys 3 123.02/S

JUL 98 None

AUG 98 None

SEP 98 Canadys 3 170.37/S Planned maintenance was performed.

McMeekin 2 308.90/S Unit was taken off line to install low Nox burners.

Williams 144.05/S Unit was taken off line for scheduled routine maintenance.

OCT 98 Canadys 3 300.00/F The unit forced off line due to problems with #3 cooling tower.

302.50/S Economic Dispatch.

Urquhart 3 194.25/S The unit came off line for a planned outage to perform routine maintenance.

McMeekin 1 350.67/S Replaced the circulating water line valve and #5Abelt feeder.

McMeekin 2 745.00/S The unit came off line for a planned outage to install Low Nox Burners.

Williams 745.00/S Scheduled and routine maintenance.

TYPE* F - Forced S - Scheduled

SOUTH CAROLINA ELECTRIC & GAS COMPANY
 FOSSIL UNIT OUTAGE REPORT
 (100 HRS OR GREATER DURATION)
 March 1, 1998 – February 28, 1999

<u>MONTH</u>	<u>UNIT</u>	<u>HRS/TYPE*</u>	<u>REASON FOR OUTAGE AND CORRECTIVE ACTION</u>
NOV 98	Urquhart 1	161.00/S	The unit came off line for a planned outage to perform routine maintenance.
		272.83/S	Economic Dispatch.
	Urquhart 2	232.00/S	The unit came off line for a planned outage to perform routine maintenance.
		188.73/S	Economic Dispatch.
	Urquhart 3	161.00/S	The unit came off line for a planned outage to perform routine maintenance.
		247.65/S	Economic Dispatch.
	McMeekin 2	303.05/S	The unit came off line for a planned outage to install Low Nox Burners.
	Wateree 1	376.53/S	The unit came off line for a planned outage to perform routine maintenance.
	Williams	720.00/S	Scheduled and routine maintenance.
	Cope	135.20/S	Scheduled and routine maintenance.
DEC 98	Canadys 1	648.72/S	The unit came off line to correct problems with the cooling tower.
	Canadys 2	648.50/S	The unit came off line to correct problems with the cooling tower.
	Canadys 3	111.75/S	Economic Dispatch.
	Wateree 2	229.97/S	The unit came off line for scheduled routine maintenance.
	Williams	274.85/S	The unit came off line for scheduled routine maintenance.
		137.77/S	The unit came off line for scheduled routine maintenance.
JAN 99	Canadys 1	135.50/S	The unit came off line to correct problems with the cooling tower.
		608.50/S	Economic Dispatch.
	Canadys 2	135.50/S	The unit came off line to correct problems with the cooling tower.
		608.50/S	Economic Dispatch.
	Canadys 3	225.88/S	Economic Dispatch.
	Urquhart 3	230.60/S	Economic Dispatch.

TYPE* F – Forced S – Scheduled

SOUTH CAROLINA ELECTRIC & GAS COMPANY

FOSSIL UNIT OUTAGE REPORT

(100 HRS OR GREATER DURATION)

March 1, 1998 – February 28, 1999

MONTH UNIT HRS/TYPE* REASON FOR OUTAGE AND CORRECTIVE ACTION

FEB 99	Canadys 1	672.00/S	Economic Dispatch.
	Canadys 2	175.00/S	Economic Dispatch.
		497.00/S	The unit came off line for scheduled routine maintenance.
	Canadys 3	672.00/S	The unit came off line for scheduled routine maintenance.
	Urquhart 1	448.00/S	The unit came off line for scheduled routine maintenance.
	Urquhart 2	490.75/S	Economic Dispatch.
	Urquhart 3	273.07/S	Economic Dispatch.

TYPE* F – Forced S – Scheduled

SOUTH CAROLINA ELECTRIC & GAS COMPANY

GENERATION MIX

MARCH 1, 1998 - FEBRUARY 28, 1999

<u>MONTH</u>	<u>PERCENTAGE</u>		
	<u>FOSSIL</u>	<u>NUCLEAR</u>	<u>HYDRO</u>
March-98	65	29	6
April-98	62	31	7
May-98	68	25	7
June-98	74	21	5
July-98	76	20	4
August-98	75	20	5
September-98	72	23	5
October-98	65	30	5
November-98	63	32	5
December-98	68	28	4
January-99	70	27	3
February-99	68	28	4

SOUTH CAROLINA ELECTRIC & GAS COMPANY

GENERATION STATISTICS OF MAJOR PLANTS

MARCH 1, 1998 – FEBRUARY 28, 1999

PLANT	TYPE FUEL	AVERAGE FUEL COST (CENTS/KWH*)	GENERATION (MWH)
Summer	Nuclear	0.48	5,532,580
McMeekin	Coal - Gas	1.39	1,682,481
Wateree	Coal	1.40	4,279,711
Cope	Coal – Gas	1.41	2,872,812
Williams	Coal	1.60	3,064,575
Urquhart	Coal - Gas	1.66	1,212,175
Canadys	Coal - Gas	1.69	1,638,501

(*) The average fuel costs for coal-fired plants include oil cost
for start-up and flame stabilization.

SOUTH CAROLINA ELECTRIC & GAS COMPANY
 SOUTH CAROLINA RETAIL COMPARISON OF ESTIMATED TO ACTUAL ENERGY SALES

	1998												1999	
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	TOTAL	
[1] ESTIMATED SALES [MWH]	1,388,000	1,317,000	1,327,000	1,522,000	1,685,000	1,751,000	1,702,000	1,426,000	1,361,000	1,471,000	1,610,000	1,561,000	18,121,000	
[2] ACTUAL SALES [MWH]	1,334,927	1,273,285	1,302,474	1,685,504	1,970,534	1,884,773	1,830,570	1,514,775	1,312,799	1,272,281	1,591,742	1,246,326	18,219,990	
[3] AMOUNT DIFFERENCE [1]-[2]	53,073	43,715	24,526	-163,504	-285,534	-133,773	-128,570	-88,775	48,201	198,719	18,258	314,674	-98,990	
[4] PERCENT DIFFERENCE [3]/[2]	4.0%	3.4%	1.9%	-9.7%	-14.5%	-7.1%	-7.0%	-5.9%	3.7%	15.6%	1.1%	25.2%	-0.5%	

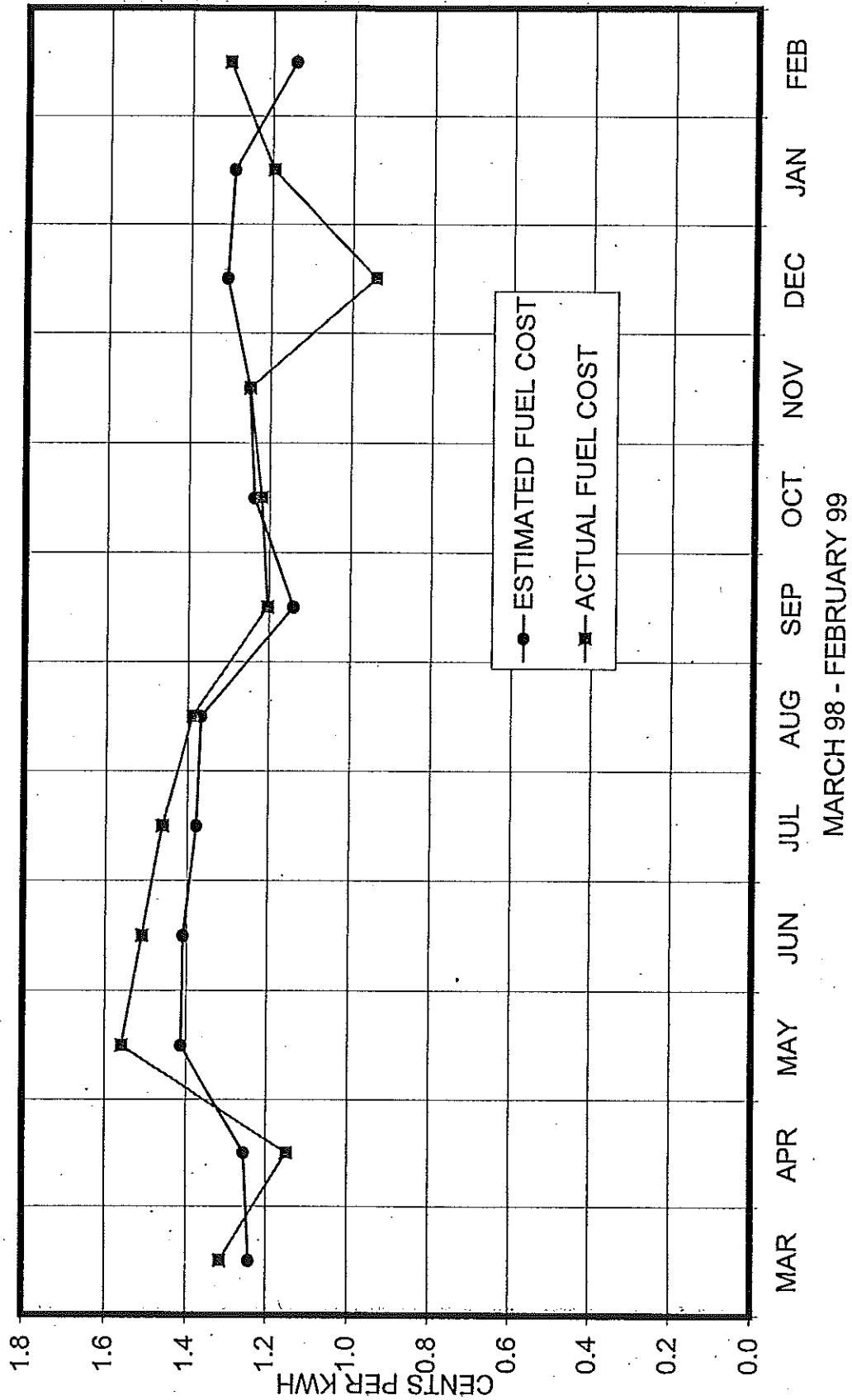
SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA RETAIL COMPARISON OF ESTIMATED TO ACTUAL FUEL COST

	1998	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1999	EEB
[1] ORIGINAL PROJECTION	1.2424	1.2554	1.4127	1.4086	1.3771	1.3665	1.1403	1.2373	1.2512	1.3091	1.2929	1.1425	
[2] ACTUAL EXPERIENCE	1.3144	1.1495	1.5580	1.5086	1.4606	1.3887	1.2043	1.2199	1.2501	0.9429	1.1963	1.3061	
[3] AMOUNT IN BASE	1.2850	1.2850	1.2850	1.2850	1.2850	1.2850	1.2850	1.2850	1.2850	1.2850	1.2850	1.2850	
[4] VARIANCE FROM ACTUAL	-5.5%	9.2%	-9.3%	-6.6%	-5.7%	-1.6%	-5.3%	1.4%	0.1%	38.8%	8.1%	-12.5%	

[1-2]/[2]

SOUTH CAROLINA ELECTRIC & GAS COMPANY
ESTIMATED TO ACTUAL FUEL COST



SOUTH CAROLINA ELECTRIC & GAS COMPANY

ADJUSTMENT FOR FUEL COSTS

APPLICABILITY

This adjustment is applicable to and is a part of the Utility's South Carolina retail electric rate schedules.

The Public Service Commission has determined that the costs of fuel in an amount to the nearest one-thousandths of a cent, as determined by the following formula, will be included in the base rates to the extent determined reasonable and proper by the Commission:

$$F = \frac{E}{S} + \frac{G}{S_1}$$

Where:

F = Fuel cost per kilowatt-hour included in base rate, rounded to the nearest one-thousandth of a cent.

E = Total projected system fuel costs:

(A) Fuel consumed in the Utility's own plants and the Utility's share of fuel consumed in jointly owned or leased plants. The cost of fossil fuel shall include no items other than those listed in Account 151 of the Commission's Uniform System of Accounts for Public Utilities and Licensees. The cost of nuclear fuel shall be that as shown in Account 518 excluding rental payments on leased nuclear fuel and except that, if Account 518 also contains any expense for fossil fuel which has already been included in the cost of fossil fuel, it shall be deducted from this account.

Plus

(B) Purchased power fuel costs such as those incurred in unit power and Limited Term power purchases where the fossil fuel costs associated with energy purchased are identifiable and are identified in the billing statement.

Plus

(C) Interchange power fuel costs such as Short Term, Economy and other where the energy is purchased on an economic dispatch basis.

Energy receipts that do not involve money payments such as diversity energy and payback of storage energy are not defined as purchased or interchange power relative to this fuel calculation.

Minus

(D) The cost of fossil fuel recovered through intersystem sales including the fuel costs related to economy energy sales and other energy sold on an economic dispatch basis.

Energy deliveries that do not involve billing transactions such as diversity energy and payback of storage energy are not defined as sales relative to this fuel calculation.

S = Projected system kilowatt-hour sales excluding any intersystem sales.

G = Cumulative difference between jurisdictional fuel revenues billed and fuel expenses at the end of the month preceding the projected period utilized in E and S.

S₁ = Projected jurisdictional kilowatt-hour sales, for the period covered by the fuel costs included in E.

The appropriate revenue related tax factor is to be included in these calculations.

SOUTH CAROLINA ELECTRIC & GAS COMPANY

HISTORY OF CUMULATIVE RECOVERY ACCOUNT

<u>PERIOD ENDING</u>	<u>OVER (UNDER) \$</u>
January 1979 – Automatic Fuel Adjustment in Effect	
July 1979	4,427,600
April 1980	7,608,796
October 1980	(462,050)
April 1981	2,188,451
October 1981	(10,213,138)
April 1982	5,164,628
October 1982	9,937,268
April 1983	9,767,185
October 1983	(4,527,441)
April 1984	(2,646,395)
October 1984	(3,211,158)
April 1985	(9,545,054)
October 1985	(6,115,435)
April 1986	2,474,301
October 1986	(540,455)
April 1987	(353,393)
October 1987	(3,163,517)
April 1988	9,247,139
October 1988	2,717,342
April 1989	(5,665,737)
October 1989	(8,777,726)
April 1990	(5,288,612)
October 1990	6,536,591
April 1991	7,180,922
October 1991	4,160,275
April 1992	15,835,472
October 1992	15,449,670
April 1993	16,006,551
October 1993	10,069,457
April 1994	2,646,301
October 1994	(265,302)
April 1995	6,622,597
October 1995	4,202,766
February 1997	4,914,169
February 1998	596,797
February 1999	(1,303,094)

SOUTH CAROLINA ELECTRIC & GAS COMPANY
PROJECTIONS OF THE CUMULATIVE RECOVERY ACCOUNT
FOR THE TWELVE MONTH PERIOD ENDING
APRIL 2000

	FUEL BASE	PROJECTED CUMULATIVE OVER/(UNDER) RECOVERY (\$)
	1.200	(26,148,414)
	1.225	(21,389,664)
	1.250	(16,630,914)
	1.275	(11,872,164)
CURRENTLY APPROVED	1.285	(9,968,664)
	1.292	(8,636,214)
	1.303	(6,542,364)
	1.304	(6,352,014)
	1.325	(2,354,664)
COMPANY PROPOSED ZERO UNDER	1.337	(70,464)
..		
ZERO OVER	1.338	119,886
	1.350	2,404,086
	1.375	7,162,836
	1.400	11,921,586